

Homework out!

- Warmup, solve the following equations.

$$\begin{array}{r} 7x - 3x - 8 = 24 \\ \underline{4x - 8 = 24} \\ \quad + 8 \quad + 8 \\ \hline 4x = 32 \\ \underline{4} \quad \underline{4} \\ x = 8 \end{array}$$

$x = 8$

$n(B) = \left(\frac{x}{n}\right)n$  Solve for  $x$ .

$nB = x$

10/15/13

### Agenda

- Opener

- Review Homework - Worksheet 2.5

  - ( Problems 1 - 11, pick any 5 of them)

  - ( Problems 12 - 16, pick any 3 of them)

- Review Sections 2.4 - 2.5

- Worksheet 2.4-2.5

  - Front side

    - ( Problems 1 - 4, pick any 2 of them)

    - ( Problems 5 - 13, pick any 4 of them)

  - Back side (riddle)

    - ( Problems 1 - 10, pick any 5 of them)

$$V(D) = \left( \frac{m}{V} \right) V$$

SOLVE FOR  
V

$$\frac{DV}{D} = \frac{m}{D}$$

$$V = \frac{m}{D}$$

$$\left( \frac{X}{7} \right) 7$$

## Section 2.4-2.5 - Review

Solving Equations with variables on both sides:

When we have variables on both sides of an equation, the first step is to get them all to one side. It is usually easier to move the smaller one. Then solve just like two-step and multi-step equations.

When you have a word problem, try to write the equations for situations first before you begin to solve them.



Word Problem:

Lifetime Fitness is currently offering two different plans. The first plan has no membership fee but costs \$5 per visit. The second plan has a \$60 sign up fee but only costs \$2 per visit. When do the plans cost the same amount?

PLAN 1

1 5  
2 10  
3 15  
4 (5) 20

PLAN 1  
 $5v$

PLAN 2  
 $2v + 60$

1  $2 + 60 = 62$   
2  $4 + 60 = 64$   
3  $6 + 60 = 66$   
4  $(2) + 60 = 68$

$$\begin{array}{r}
 5v = 2v + 60 \\
 -2v \quad -2v \\
 \hline
 3v = 60 \\
 \underline{3} \quad \underline{3} \\
 v = 20
 \end{array}$$

## Section 2.4-2.5 - Review

Literal  
Equations:

Solving literal equations is just like solving equations.  
Just make sure you look at which variable you want to  
solve for. Treat each term as an object and move them  
by "undoing" operations.

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$$\frac{a+c}{2b} = 9$$

Solve for  $b$ .

$$(a+c) \div 2b = 9$$

8-

$$\frac{a+c-9}{2} = b$$

$$\cancel{2b} \left( \frac{a+c}{\cancel{2b}} = 9 \right) \cancel{2b}$$

$$\frac{a+c}{18} = \frac{18b}{18}$$

$$\frac{a+c}{18} = b$$